

CLAIMS

What is claimed is:

1. A closure system comprising: a closure moveable for substantially closing an aperture in use, and an actuator for at least closing the closure, the actuator being mounted by a mounting system, the mounting system including one or more measurement cells for measuring, in use, at least one parameter of the closure systems, in use the closure system being subjected to accelerations and being arranged such that it is possible to at least partially distinguish forces applied to the closure by the actuator from acceleration forces applied to the closure as a result of the accelerations of the closure system by consideration of the measured at least one parameter.
2. The closure system as defined in Claim 1 in which the closure system is part of a vehicle.
3. The closure system as defined in Claim 2 in which the vehicle is a land vehicle or a aircraft or a marine vehicle.
4. The closure system as defined in Claim 1 in which the closure moves primarily in a vertical direction.
5. The closure system as defined in Claim 1 in which the closure moves primarily in a horizontal direction.
6. The closure systems as defined in Claim 1 in which the closure is a window.
7. The closure system as defined in Claim 6 in which the window is a door window.

8. The closure systems as defined in Claim 7 in which the closure system is mounted in the door.
9. The closure systems as defined in Claim 1 in which the closure is a sun roof.
10. The closure system as defined in Claim 1 in which the closure is a partition.
11. The closure system as defined in Claim 1 in which the closure is a sliding personnel door.
12. The closure system as defined in Claim 1 in which the actuator includes an electric motor.
13. The closure system as defined in Claim 12 in which the actuator includes a gearbox.
14. The closure system as defined in Claim 13 in which the actuator is a window regulator motor including a gearbox.
15. The closure system as defined in Claim 1 in which the mounting system comprises at least two measurement cells positioned in a spaced apart relationship.
16. The closure system as defined in Claim 1 in which the at least one parameter measured are force.
17. The closure system as defined in Claim 1 in which the actuator is capable of opening the closure.

18. The closure system as defined in Claim 1 further including an aperture to be closed by the closure.

091045 0700
FOUO 5/40/660

19. An aperture motor assembly for at least closing an aperture, the motor assembly comprising: measurement cells being arranged such that in use it is possible to at least partially distinguish forces applied to the associated aperture closure from acceleration forces applied to an associated aperture closure as a result of accelerations of the aperture closure and motor assembly by consideration of the output from the measurement cells.
20. The aperture motor assembly as defined in Claim 19 suitable for use as a window regulator motor assembly.
21. The aperture assembly as defined in Claim 20 in which the motor assembly includes a gearbox.